

## 03050112-010

(Santee River)

### General Description

Watershed 03050112-010 is located in Clarendon, Williamsburg, and Berkeley Counties and consists primarily of the *Santee River* and its tributaries downstream of Lake Marion to Crawl Creek (rediversion canal). The watershed occupies 120,589 acres of the Upper and Lower Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Chastain-Tawcaw-Lynchburg-Emporia series. The erodibility of the soil (K) averages 0.24; the slope of the terrain averages 2%, with a range of 0-6%. Land use/land cover in the watershed includes: 40.0% forested land, 33.3% forested wetland, 13.2% agricultural land, 12.2% scrub/shrub land, 0.9% water, and 0.4% barren land.

This segment of the Santee River flows out of the Santee Dam of Lake Marion and incorporates the drainage of the Little River, the Dead River, Highland Creek (Hicks Branch, Meetinghouse Branch, Bennetts Branch), Doctors Branch (Torkiln Branch, Mill Branch), Mt. Hope Swamp (Hagan Branch, Long Branch, Junkyard Bay, Guise Bay, Little Junkyard Bay, Cypress Bay), Campbell Branch, Walnut Branch, and Johns Run. There are numerous ponds and oxbow lakes used for recreation and water supply (totaling 444.7 acres) and a total of 178.3 stream miles, all classified FW. The oxbow lakes include Couturier Lake, Cordes Lake, Solomon Lake, Little Solomon Lake, Wood Lake, and Maham Lake.

### Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
SC-024	SC	FW	SANTEE RIVER AT WILSONS LANDING
ST-016	P	FW	SANTEE RIVER AT US 52 6.5 MI NNW OF ST STEPHENS

*Santee River* - There is one SCDHEC (**ST-016**) and one SCPSA (**SC-024**) monitoring site along this section of the Santee River. Recreational uses are fully supported at both sites. At the upstream site (**SC-024**), aquatic life uses are fully supported. Aquatic life uses are also fully supported at **ST-016**, although there is a significant increasing trend in turbidity. Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentrations suggest improving conditions for these parameters. A very high concentration of copper was detected in the 1994 sediment sample, very high concentrations of lead were detected in the 1994 and 1997 samples, and endrin was detected in the 1995 sample.

*A fish consumption advisory has been issued by the Department for mercury and includes the Santee River within this watershed (see advisory p.34).*

## NPDES Program

### *Active NPDES Facilities*

*RECEIVING STREAM*

*FACILITY NAME*

*PERMITTED FLOW @ PIPE (MGD)*

*COMMENT*

*NPDES#*

*TYPE*

*LIMITATION*

SANTEE RIVER

SANTEE RIVER WWTP WILLIAMSBURG CO. W&SA

PIPE #: 001 FLOW: 0.50

PROPOSED

SC0048097

MINOR DOMESTIC

EFFLUENT

### *Mining Activities*

*MINING COMPANY*

*MINE NAME*

*PERMIT #*

*MINERAL*

SANTEE MINERALS, INC.

GREGG MINE

0465-15

SAND

## Growth Potential

There is a low potential for growth projected in this watershed, which is occupied largely by the Santee National Wildlife Refuge.